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being like *Crocodylus* in cranial characters, while *Thecachampsia* is a gavial. The species of the latter are *T. SERICODON* Cope, abundant in New Jersey, at Shiloh and elsewhere, with long curved cylindric teeth. *T. SICARIA* Cope, from Maryland, with much compressed crown of the tooth, with prominent cutting edges. *T. ANTIQUA* (*Crocodylus* Leidy,) with teeth less curved, cylindric and with very short cutting ridges. From Virginia.

The characters of the three species may be thus compared:

The crowns of the teeth not compressed, with short cutting edges.

T. antiqua.

Crowns cylindric, curved, with long and delicate cutting edges.

T. sericodon.

Crowns compressed with very prominent crenulate cutting edges, on a marginal base.....*T. sicaria*.

The last named also possesses a large maxillary tooth, near the position of the ninth of *Crocodylus*, which fits a corresponding concavity between two of the mandibular teeth, resembling in this the existing genus *Tomistoma*.

TESTUDINATA.

TRIONYX Geoff.

TRIONYX LIMA Cope, sp. nov.

Represented by one costal-bone from Shiloh, N. Jersey. It is massive, and strongly sculptured by numerous approximated narrow raised ridges, which extend across the bone, with little inosculation, and which leave intervals between them a little wider than themselves.

The characters may be compared with those of the three species from the cretaceous of New Jersey, as follows:

Costal bone transversely figured by narrow elevated ridges..... *T. lima*.

Costal bone with thick, low, transverse ridges, which are connected by cross-ribs which leave series of pits..... *T. priscus*.

Costal bones with transverse irregular grooves proximally which remain along the sutures only distally, leaving an area of a shallow honey-comb pattern medially..... *T. pennatus*.

Costal bones with a shallow coarse honey-comb pattern, tending to confluence distally *T. halophilus*.

April 6th.

The President, DR. HAYS, in the Chair.

Twenty-six members present.

The following papers were presented for publication:

Notice of some Extinct Vertebrata from Wyoming and Dakota.

By Jos. Leidy, M. D.

Description of new Crinoidea and Echinoidea from the Carboniferous Rocks of the Western States, with a note on the Genus *Onychaster*. By F. B. Meek and A. H. Worthen.

Remarks on the Blastoida with descriptions of new species. By F. B. Meek and A. H. Worthen.

The publication of the fifth number of the Proceedings for 1868, was announced.

April 13th.

The President, DR. HAYS, in the Chair.

Twenty-two members present.

[April,